

# STEVE H.L. LIANG - CURRICULUM VITAE

June 2010

## PROFESSIONAL RECORD

### Academic Record

- Bachelor of Science, June 1999  
Surveying Engineering, National Cheng-Kung University, TAIWAN
- Doctor of Philosophy, August 2007  
Earth and Space Science, York University, CANADA

### Academic Appointment

- Assistant Professor, The University of Calgary, September 2007 ~ Present

## SCHOLARLY ACTIVITIES

### Research Grants

Period	My Role, Title of Proposal, Funding Source	Total/My Percentage
2009~ 2011	<b>Project Leader,</b> <i>GeoCENS: Geospatial Cyberinfrastructure for Environmental Sensing</i> , funded by CANARIE NEP II program	\$1,080,158 (77%)
2009	<b>Project Participant,</b> <i>Community-Based Watershed Program for Sustainable Groundwater Management</i> , funded by Royal Bank Canada	My part is \$8,000
2010~ 2011	<b>Project Leader,</b> <i>TrafficPulse: A Participatory Mobile Urban Sensor Web for Intelligent Green Transportation</i> , funded by GEOIDE Strategic Investment Initiative program	\$240,000 (28%)
2008~ 2012	<b>Project Leader,</b> <i>Sense-Able GIS: A P2P-based Interoperable Spatial Sensor Web Architecture</i> , funded by NSERC Discovery grant	\$101,500 (100%)
2009	<b>Project Leader,</b> <i>Cyberinfrastructure for monitoring Biogeosciences processes in the Rockies</i> , funded by Cybera Inc. Cybera Academic Pilot Project	\$72,000 (100%)
2008~ 2009	<b>Project Participant,</b> <i>Cyberinfrastructure for monitoring Biogeosciences processes in the Rockies</i> , funding from Biogeoscience Institute's	\$20,000 (100%)

NSERC Major Resource Support grant. NSERC

2007 **Project Leader**, *University Startup Grant*, funded \$40,000 (100%) by the Schulich School of Engineering and the Department of Geomatics Engineering

### Selected Publications

10. Kassab, A., **Liang, S.H.L.**, Gao, Y. (2010), *Real-time Notification and Improved Situational Awareness in Fire Emergency Using Geospatial-based Publish/Subscribe*, International Journal of Applied Earth Observation and Geoinformation (In Press)
9. Jing, W., Xin, W., **Liang S.H.L.** (2010), *GeoClustering: A Web Service for Geospatial Clustering*, Book chapter in *Advances in Web-based GIS, Mapping Services and Applications*, Tylor and Francis (In Press)
8. Rezel, R., **Liang, S.H.L.** (2010), *SWE-FE: Extending Folksonomies to the Sensor Web*, The 2010 International Symposium on Collaborative Technologies and Systems (CTS 2010) Sensor Web Enablement Workshop 2010 (SWE2010), May 17~21, Chicago, USA
7. Chen, S.H.Y., **Liang, S.H.L.** (2010), *A Locality-Aware Peer-to-Peer Approach for Geospatial Web Services Discovery*, The First Canadian Geomatics Conference and the ISPRS Technical Commission I Symposium 2010, Calgary, Canada. June 15~18 2010 (Accepted)
6. Tao, V., **Liang S.H.L.** (2009), *Introduction to the Spatial Sensor Web*, Book chapter in *ASPRS Manual of GIS*, first edition. edited by M. Madden, ASPRS, ISBN 1-57083-086-X
5. Craglia, M., Goodchild, M.F., Annoni, A., Camara, G., Gould, M., Kuhn, W., Mark, D., Masser, I., Maguire, D., **Liang, S.H.L.**, Parsons, E. (2008), *Next-Generation Digital Earth*, International Journal of Spatial Data Infrastructures Research Vol.3 pp.146-167
4. **Liang, S.H.L.** (2008), *A New Peer-to-Peer-based Interoperable Spatial Sensor Web Architecture*, The ISPRS XXlth Congress, Beijing, China. July 2-11 2008
7. **Liang, S.H.L.** (2008), *A New Fully Decentralized Scalable Peer-to-Peer GIS Architecture*, The ISPRS XXlth Congress, Beijing, China. July 2-11 2008
2. **Liang, S.H.L.**, Coritoru, A., Tao, C.V. (2005), *A Distributed Geo-Spatial Infrastructure for Smart Sensor Webs*, Journal of Computers and Geosciences Vol.31(2) pp.221-231
1. Tao, V., **Liang S.H.L.**, Croitoru, A., Haider, Z., and Wang, C. (2004), *GeoSWIFT: Open Geospatial Sensing Services for Sensor Web*, Book chapter in *GeoSensor Networks*. eds. A. Stefanidis & S. Nittel, CRC Press, 2004, pp. 267-274 ISBN:2-88074-541-1